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**From:** Kraft, Andrew [Kraft.Andrew@epa.gov]  
**Sent:** 12/1/2014 6:47:17 PM  
**To:** Newhouse, Kathleen [Newhouse.Kathleen@epa.gov]  
**CC:** Cooper, Glinda [Cooper.Glinda@epa.gov]; Jones, Samantha [Jones.Samantha@epa.gov]; Strong, Jamie [Strong.Jamie@epa.gov]; Kraft, Andrew [Kraft.Andrew@epa.gov]  
**Subject:** B[a]P references for possible use  
**Attachments:** Perera2014PAHsADHD.pdf; howells2009SHRratADHDmodel.pdf

Hi Kathleen,

I hope you had an enjoyable Gobble day.

I somehow got caught in a PubMed loop that led me to these papers relevant to B[a]P. The Perera study is the latest update of the New York cohort that Glinda reviewed previously (linking PAHs to ADHD)... I couldn't recall if we had included the 2014 paper.

The Howells study is somewhat more interesting... they used an ADHD rat model and tested open field behaviors and elevated plus maze. Interestingly, the "ADHD rats" exhibit a similar response in the elevated plus maze as reported following B[a]P exposure in the Chen study (i.e., increased time in the open arms/ number of open arm entries—typically thought to reflect decreased anxiety)... it may be worth looking into this a bit more when B[a]P again begins to rear its ugly head.

-Andrew